

ABSTRACT

While each of pixels of a solid-state imaging element of a digital camera is divided into both a main pixel having a large area and a sub-pixel having a small area, a sensitivity correcting process operation thereof is carried out under better condition even when a sensitivity characteristic of the main pixel is different from a sensitivity characteristic of the sub-pixel with respect to a stop-amount of a diaphragm.

A digital camera is provided with a diaphragm 12 for controlling an amount of incident light; a solid-state imaging element 11 for receiving the incident light which has passed through the diaphragm 12, in which a plurality of pixels are arranged in an array shape, and each of the pixels is divided into a main pixel having a large area and a sub-pixel having a small area by an element separating band deviated from a center of the pixel; synthesizing process means 26 for synthesizing a high-sensitivity image signal read from the main pixel of each of the pixels with a low-sensitivity image signal read from the sub-pixel; and control means 15 for separately controlling a gain amount for the high-sensitivity image signal and a gain amount for the low-sensitivity image signal in response to a stop-amount of the diaphragm 12 so as to cause the synthesizing process means 26 to execute the synthesizing operation.